PATENT ABSTRACTS OF JAPAN

(11)Publication number:

2003-098399

(43) Date of publication of application: 03.04.2003

(51)Int.CI.

GO2B

H05K 1/02

(21)Application number : 2001-291906

(71)Applicant: KONICA CORP

(22)Date of filing:

25.09.2001

(72)Inventor: SUGIURA MASASHI

SATO MASATAKE SHIBUYA SATOSHI

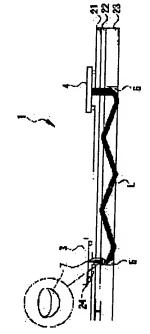
KAMATA TAKASHI

(54) OPTICAL MOUNTING SUBSTRATE

(57)Abstract:

mounting substrate capable of transmitting highspeed data on an electronic/electric circuit and also for solving the problem of an EMI noise. SOLUTION: In this optical mounting substrate, a light emitting part disposed on the substrate and for emitting signal light and a light receiving part disposed on the substrate or a different substrate and for receiving the signal light are arranged separately from each other. The optical mounting substrate is also provided with an optical transmission body for transmitting the signal light emitted from the light emitting part to the light receiving part, and a first optical element formed at a position where the signal

PROBLEM TO BE SOLVED: To provide an optical



light from the light emitting part can be received in the optical transmission body and for transmitting the emitted signal light into the optical transmission body. The optical mounting substrate is further provided with a second optical element formed at a position where the transmitted signal light can be guided to the light receiving part inside the optical transmission body and for allowing the signal light transmitted inside the optical transmission body to be made incident on the light receiving part. A third optical element for changing the signal light into parallel light is provided between the light emitting part and the first optical element.